![SECOS Logo] **secos**
Elektronische Bauelemente

SM2200B
Voltage 200V
2.0Amp Schottky Barrier Rectifiers

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
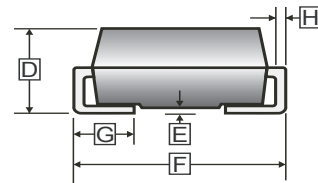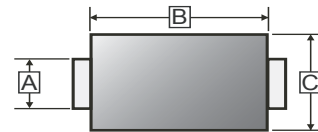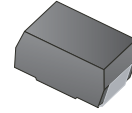- Low Revise Current

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable per MIL-STD-202 method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

SMB

PACKAGE INFORMATION

Package	MPQ	LeaderSize
SMB	3K	13' inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.06	4.70	F	5.08	5.59
C	3.30	3.94	G	0.76	1.52
D	2.13	2.44	H	0.15	0.305

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)
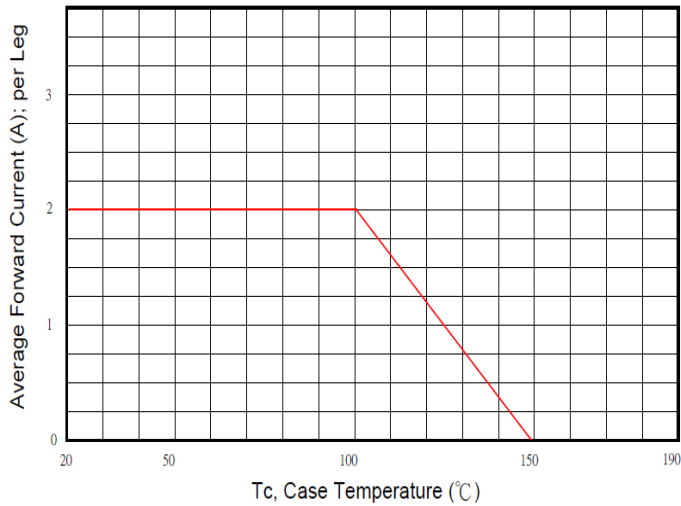
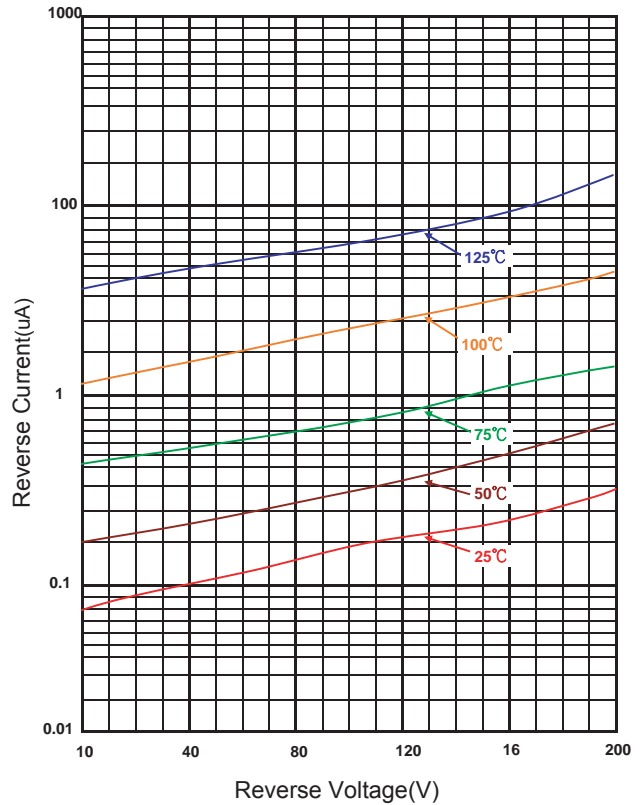| Parameter		Symbol	Rating	Unit
Peak Repetitive Peak reverse voltage		V_{RRM}	200	V
Working Peak Reverse Voltage		V_{RWM}	200	V
Maximum DC Blocking Voltage		V_R	200	V
Average Forward Current @T_J=25°C		$I_{F(AV)}$	2	A
Peak Forward Current @ 8.3 ms Half Sine		I_{FSM}	60	A
Maximum Instantaneous Forward Voltage	I_{FM} = 2.0A, T_A=25°C	V_F	0.85	V
	I_{FM} = 2.0A, T_A=75°C		0.75	
	I_{FM} = 2.0A, T_A=125°C		0.68	
Maximum DC Reverse Current At Rated DC Blocking Voltage	T_J=25°C	I_R	5	µA
	T_J=100°C		50	
Typical Junction Capacitance [1]		C_J	40	pF
Typical Thermal Resistance [2]		$R_{\theta JA}$	50	°C / W
Typical Thermal Resistance [3]		$R_{\theta JC}$	25	°C / W
Voltage Rate of Chance (Rated V_R)		dv/dt	1000	V / µs
Operating Temperature Range		T_J	-50~150	°C
Storage temperature		T_{STG}	-65~150	°C

Notes:
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Ambient.
3. Thermal Resistance Junction to Case.

SΣCOS
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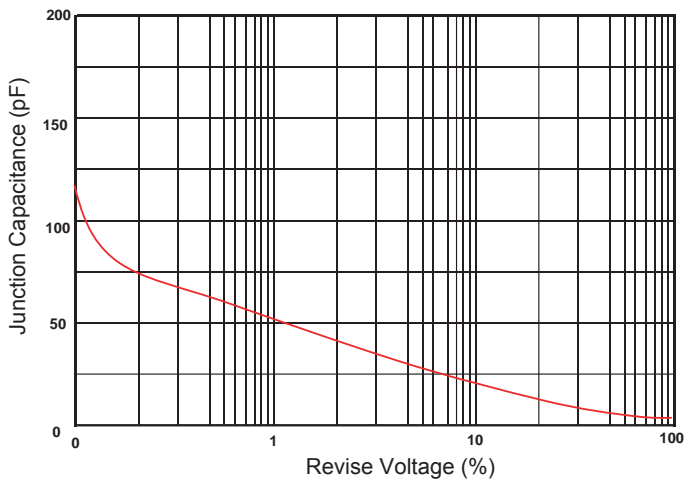# RATINGS AND CHARACTERISTIC CURVES

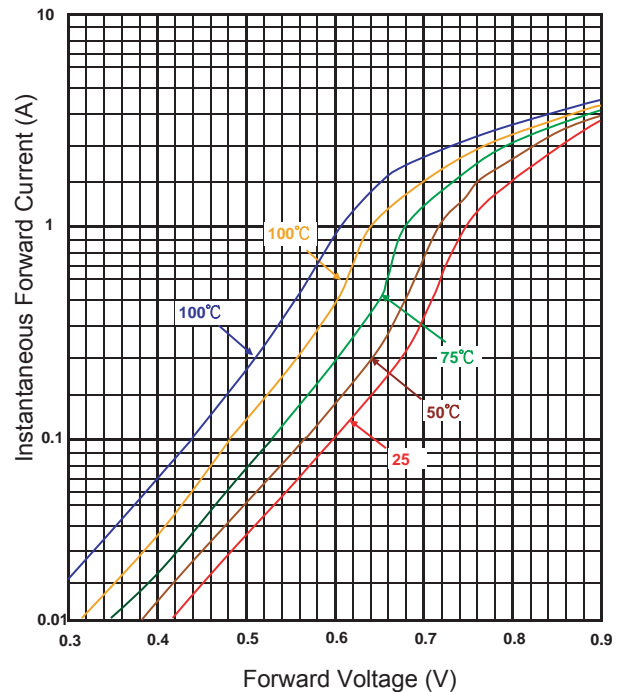Typical Forward Current Derating Curve

Typical Reverse Characteristic

Typical Junction Capacitance

Typical Forward Characteristic

Maximum Non- Repetitive Forward Surge Current

Any changes of specification will not be informed individually.